

1 msdsgsqlgs mgsltmksql qitvisaklk enkknwfgps pyvevtvdgq skktekcnnt
 61 nspkwkqplt vivptvsklh frvwshqtlk sdvl1gtaal diyetlksnn mkleevvv1
 121 qlggdkepte tigdisicld glglesevvt ngettcesa sqnndgsrsk detrvstngs
 181 ddpedagage nrrvegnnsp slsnggfkps rpprpsrppp ptprrpasvn gspssatsesd
 241 gsstgslppt ntntntsega tsigliplti sggsgprpln pvtqaplppg weqrvdqhgqr
 301 vyyvdhvekr ttwdrepepl pgwerrvdnm griyyvdhft rttrtwqrptl esvrnyeqwq
 361 lqrsqlqgam qqfnqrifiy nqdlfatsqs kefdplgplp pgwekrtdsn grvyfvnhnt
 421 ritqwedprs qqqlnekplp egwemrftvd gipyfvdhnr rttyidprt gksaldngpq
 481 iayvrdfkak vqyfrfwcqg lampqhikit vtrktlfeds fqqimsfspq dlrrrlwvif
 541 pgeegldygg varewfflls hevlnpmycl feyagkdny lqinpasyin pdhlkyfrfi
 601 grfiamalrh gkfildtgsfsl pfykr4lnkp vglkdlesid pefynsliw kennieecdl
 661 emyfsvdkei lgeikshdlk pnggnilte enkeeyirmv aewrlsrgve eqtqaffegf
 721 neilpqyqlq yfdakelevl lcgmqeidl dwqrhaiyrh yartskqimw fwqfvkeidn
 781 ekrmrllqfv tgtcrlpvgg fadlmgsngp qkfciekvgk enwlprsh tcfnrldlppyk
 841 syeqlekll faieetegf qe (SEQ ID NO:1)

FIG. 1A

1 mgsltmksql qitvisaklk enkknwfgps pyvevtvdgq skktekcnnt nspkwkqplt
 61 vivptptsklc frvwshqtlk sdvl1gtagl diyetlksnn mkleevvv1 qlvgdkepte
 121 tmgdlsvcld glqveaeavt ngetsccest tqnddgcctr ddtrvstngs edpevaasge
 181 nkrangnnsp slsnggfkps rpprpsrppp ptprrpasvn gspstnsdsd gsstgslppt
 241 ntntntse gatsgliipl tisggsgprp lntvsqaplp pgweqrvdqh grvyvvvhve
 301 krttwdrpep lppgwerrvd nmgrriyyvdh ftrtttwqrpt tlesvrnyeq wqlqrsqlqg
 361 amqqfnqrifi ygnqdlfats qnkefdplgp lppgwekrtd sngrvyfvnh ntritqwedp
 421 rsqgqlnekplp lpegwemrft vdgiyfvdh nrrattyidp rtgksaldng pqiayvrdfk
 481 akvqyfrfwc qqqlampqhik itvtrktlf dsfqqimsfs pqdlrrrlw ifpgeegldy
 541 ggvarewffl lshevlnpmycl feyagkdny yclqinpasy inpdhlkyfr figrfiamal
 601 fhgkfildtgsfsl slpfykriln kpvglikles idpefynsli wvkenneec glemyfsvdk
 661 eilgeikshd lkpnggnilv teenkeeyir mvaewrlsrg veeqtqafffe gfneilpqy
 721 lqyfdakele vllcgmqeidl lndwqrhaiy rhytrtskqi mwfwqfvkei dnekrmrllq
 781 fvtgtcrlpv ggfadlmgsn gpqkfciekv gkenwlprsh tcfnrldlpp yksyeqlkek
 841 llfaieeteg fgqe (SEQ ID NO:2)

FIG. 1B

BEST AVAILABLE COP^Y

1 matcavevfg lledeensri vrvrviagig lakkdilgas dpyvrvtlyd pmngvltsvq
 61 tktikkslnp kwneelfrv hqqhrlife vfdenrltrd dflgqvdpvpl yplptenprl
 121 erpytfkdfv lhprshksrv kgylrikmtly lpktsgsedd naeqaelep gwvldqpda
 181 achlqqqep splppgweer qdilgrtyyy nhesrtqwk rptpqdnlt aengnqlqa
 241 qraftrrqi seetesvdnr essenweiir edeatmysnq afpspppssn ldvpthlaee
 301 lnarlifgn savsqpasss nhssrrgslq aytfeeqptl pvlptssgl ppgweekde
 361 rgrsyvvvhm srttwtkpt vqatvetsql tssqssagpq sqastsdsgq qvtgpseieq
 421 gflpkwewr hapngrpffi dhntktttwe dprlkipahl rgktstdtsn dlglppgwe
 481 erhtdgriy yinhnikrtq wedprlenva itgpavpysr dykrkyeffr rklkkqndip
 541 nkfemklrra tvledsyrrri mgvkradflk arlwiefdge kgldyggvar ewffliskem
 601 fnpyyglfey satdnytlqi npnsglcned hlsyfkfigr vagmavyhgk lldgffirpf
 661 ykmmlhkpit lhdmesvdse ynslrwile ndpteldlrf iideelfgqt hqhelknngs
 721 eivvtnknkk eyiyliqwr fvnriqkqma afkegffeli pqdlikifde nelellmcgl
 781 gdvdvndwre htokyngysa nhqviqwfwk avlmmdsekr irllqfvgtgt srvmngfae
 841 lygsngpqsf tveqwgtpesk lrahtcfnr ldlppysefe elwdklqmai entqgfdfgv

(SEQ ID NO:3)

FIG. 2A

1 msgiltsvqt ktikkslnpk wneeilfrvl pqrhrilfev fdenrltrdd flggqvdpvly
 61 plptenprme rpytfkdfv l hprshksrvk gyrlrkmtly pkngsedena dqaeelsgew
 121 vvldqpdaat hlphppesp lppgwéerqd vlgryyyvh esrrtqwksp spdddltded
 181 nddmqlqaqr afttrrqise dvgdgnres penweivred enteysgqav qspssghidv
 241 qthlaefnt rlavcgnpat sqpvtsnhs srggslqtc feeqptlpv lptssglppg
 301 weekqddrgr syvvdhnskt ttwskptm dprskipahl rgktstdsndlq pippgweert
 361 htdgrvffin hniktqwed prlqnvaigt pavpysrdyk rkycffrrkl kkqtdipnkf
 421 emklrranil edsyyrimgv kradllkarl wiefdgekgl dyggvarewf fliskemfn
 481 yyglfeysat dnytlqinp sglcnedhls yfkfigrvag mavyhgkll gffirpfykm
 541 mlqklltihd mesvdseyys slrwilendp teldlrfi eelfggthqh elktggseiv
 601 vtnknkeyi ylviquwrfvn riqkqmaafk egffelipqd likifdenel ellmcglgdv
 661 dvndwrehtk ykngysmnhq vihwfwkavw mmdsekrl lqfvtgtarv pmngfaelyg
 721 sngpqsf tveqwgtpdklpr ahtcfprldl ppyesfdew dklqmaient qgfdgvd

(SEQ ID NO:4)

FIG. 2B

1 magnvkkssg aggggtgsqgs gsgglliglmk dafqphhhhh hhlsphppgt vdkkmvekcw
 61 klmdkvvrlc qnpklalkns ppyildl1pd tyqhlrtils ryegkmetlg eneyfrvfme
 121 nlmkkktkqt1 slfkegkerm yeensqprn ltklsifsh mlaelkgifp sglfqgdtfr
 181 itkadaaefw rkafgektiv pwksfrqalh evhpissgle amalkstidl tcndyisvfe
 241 fdiftrlfqp wsslrrwns lavthpgyma fltydevkar lqkfihkpgs yifrlsctrl
 301 gqwaigvta dgnilqtiph nkplfqalid gfregfylfp dgrnqnpdlt glceptpqdh
 361 ikvtqeqyel ycengstfql ckicaendkd vkiepcghlm ctscltswqe segqgcpcr
 421 ceikgtepiv vdpfdprgsg sllrqgaega pspnyddddd eraddtlfmm kelagakver
 481 ppspfsmmapq aslppvppr1 d1lpqrvcvp ssasalgtas kaasgslhkd kplpvptl1r
 541 dlppppppdr pysvgaesrp qrrplpctpg dcpsrdklpp vpssrlgdsw lprpipkvpv
 601 sapsssdpw1 greltnrhsl qfslpsqmep rpdvprlgst fsldtsmsmn ssplvgpecd
 661 hpkikpssa naiyslaarp lpvpk1ppge qcegeedtey mtppsrplrp ldtsqssrac
 721 dcdqqidsct1 yeamyniqsq apsitesstf gegrnlaaha ntgeesene ddgydvpkpp
 781 vpavlarrtl sdisnasssf gwlsldgdpt tnvtsgvpr erppkpfpr1 inserkagsc
 841 qqgsgpaasa ataspqlsse ierlmsqgys yqdqkalvi aqnniemakn ilrefvsiss
 901 pahvat (SEQ ID NO:5)

FIG. 3A

1 magnvkkssg aggggsgggsg aggliglmkd afqphhhhhh lsphppctvd kkmvekcwkl
 61 mdkvvrlcq1 pnvalknsp1 yildllpdyt qhlrtvlsry egkmetlgen eyfrvfmenl
 121 mkktkqtisl fkegkermye ensqprnl1 k1slifshml aelkgifp1g lfqgdtfr1t
 181 kadaaefwrk afgektivpw ksfrqalhev hpiissgleam alkstidl1c ndyisvfefd
 241 iftrlfqws sllrnwns1a vthpgymaf1 tydevkarlq kfihkpgsyi frlsctrlgq
 301 waigvtagd nilqtiphnk plfqlalidgf regfylfpdg rnqnqpdltg1 ceptpqdhik
 361 vtqicaendk dvkiepcghl mctscltswq eseggcpfc rceikgtep1 vvdpf1prgs
 421 gsllrqgaeg apspnyddddd deraddslf1m mkelagakve rpsspfsmmap qas1ppvppr
 481 1d1lqqrapv pastsvlgta skaasgslh1 dkpl1p1pt1 rd1pppppp1 rpysvgae1r
 541 pqrrplpctp gdcp1rdklp pvpssrp1gds wlsrtipkvp vatpnpgdpw ngreltnrhs
 601 lpfslpsqme pradvprlgs tf1sldtsmtm nsspva1ges ehpkikpss1 anaiyslaar
 661 plpm1pk1ppg egeeseedte ymtptsr1vg vqkpepk1pl eatqssracd cdqqidscty
 721 eamyniqsq1 ls1vaensasg egnlatahts tgpeesened dgydvpkpp1 pavlarrtl1s
 781 disnasssf1 gwlsldgdptn fnegsqvper ppkpfpr1n serkassyqq gggatanpva
 841 tapspqlsse ierlmsqgys yqdqkalvi ahnniemakn ilrefvsiss pahvat
 (SEQ ID NO:6)

FIG. 3B

1 mansmngrnp ggrgggnprkg rilgiidaiq davgppkqaa adrrtvektw klmdkvvrhc
 61 qnpklqlkns ppyildilpd tyqhlrlils kyddnqklaq lseneyfkiy idslmkkskr
 121 airlfkegke rmyeeqsqdr rnltklslif shmlaeikai fpngqfqgdn frtkadaae
 181 fwrfkffgdkt ivpwkvfrqc lhevqisss leamalksti dltcndyisv fefdiftrlf
 241 qpwgsqlrnw nflavthpgy maflydevk arlkystkp gsyifrlsct rlgqwaigvv
 301 tgdgnilqti phnkplfqal idgsregfyl ypdgrsynpd ltglceptph dhikvtqeey
 361 elycemgstf qlckicaend kdvkiepcgh lmctsclaw qesdgqgcpf crceikgt
 421 iivdpfdprd egsrccsiid pfgmpmldld ddddreeslm mnrlanvrkc tdrqnspvts
 481 pgssplaqrr kpqpdpqlqip hslppvppr ldliqkgivr spcgsptgsp ksspcmvrkq
 541 dkplpapppp lrdpppppe rpppippdnrs lsrhihves vpsrdppmpl eawcprdvfg
 601 tnqlvgcrll gegspkpgit assnvngrhs rvgsdpvlmr khrrhdlple gakvfsnghl
 661 gseeydvppr lspppvttl lpsikctgp1 anssektrd pveedddeyk ipsshpvsln
 721 sqpshchnvk ppvrscdngh cmngthgps sekksnipdl siylkgdvd sasdpvpplp
 781 arppterdnpk hgsslnrtps dydlipllg edafdalpps lppppparh sliehskppg
 841 sssrpssqgd lfllpsdpfv dlasgqvplp parrlpgevn ktnrtsqdyd qlpscsgdsq
 901 aparppkprp rrtapeihr kphgpeaale nvdakiaklm gegyafeevk raleiaqnnv
 961 evarsilref afpppvspnl nl (SEQ ID NO:7)

FIG. 4A

1 mctsclawq esdgqgcpfc rceikgtipi ivdpfdprde gsrrccsiidp fsipmldld
 61 dddreeslmm nrlasvrkct drqnsptsp gssplaqrrk pqpdplqiph lslppvpprl
 121 dliqkgivrs pcgsptgspk sspcmvrkqd klpapppl rdppppperp ppippdnrls
 181 rhfhgesvp srdqpmplea wcprrdftn qvmgcrlgd gspkpgvtan sslngrhsrm
 241 gseqvlmrkhh rrhdlpsega kfvsnghlat eeydvpprls ppppvtllp sikctgplan
 301 csektrdtv eddddeykip sshpvslnsq pshchnvkap vrscdnghci lngthgapse
 361 mkksnipdlg iylkedafad alppslpppp pparhslih skpgqsssrp ssgqdlflpp
 421 sdppfdptsg qvplpparra agdsgkanra sqdydqlpss sdgsqaparp pkprprrtap
 481 eihhrkphgp eaalenvdak iaklmgegya feevkralei aqnnvevars ilrefafppp
 541 vsprlnl (SEQ ID NO:8)

FIG. 4B

1 malavapwgr qweearalgr avrmlqrlee qcvdprlsvs ppslrdllpr taqlrevah
61 srraaggggp ggpggsgdfl liylanleak srqvaallpp rgrrsandel fragsrlrrq
121 laklaiifsh mhaelhalfp ggkycghmyq ltkapahtfw rescgarclv pwaefesllg
181 tchpvepgct alalrttidl tcsghvsi fe fdvftrlfqp wptllknwql lavthpgyma
241 fltydevqer lqacrdkpgs yifrpctrl gqwaigvss dgsilqtipa nkplsqvllle
301 gqkdgylyp dgkthnpdl elgqaepqqr ihvseeqlql ywamdstfel ckicaesnkd
361 vkiepcghll cscclaaawqh sdsqtcpfcr ceikgweavs iyqfyqqata edsgnssdqe
421 grelelgqvp lsapplppr dlpprkprna qpkvrllkgn spaalgpqd papa

(SEQ ID NO:9)

FIG. 5A

1 maaaaaprgw qrgepralsr avkllqrlee qcrdprmvtg ppslrdllpr taqllevak
61 arrearedpe gpggaddfla iylanlevkg rqvaellppr gkkdvnqdvf regsrfrql
121 aklalifshm haelsalfpa gkycghlyql tkgsahifwr qncgvrcvlp waefqsilca
181 chpvepgptm qalrstldlt cnghvsvfef dvftrlfqpw ptllrnwql avnhpgymaf
241 ltydevqtrt qayrdkpgsy ifrpctrl gwaigvssd gsilqtipin kpllqvllkg
301 qkdgiflfpd gkhnlpdlte lcrvepyqri qvseqllly qamnstfqlc kicaerdkv
361 riepcghllc scclsawqds dsqtcpfcr eikgreavsi cqaqerptev rtaadgsrdn
421 chqeaeeqkl gpvipsapsl 1pedqfpqgp qdkgwltlap lalprlrppl plpkmasvlw
481 evtsrprare eatess (SEQ ID NO:10)

FIG. 5B

1 mgpppgagvs crggcfsrl lawcfllals pqapgsrgae avwtaylnvs wrvphtgvnr
61 tvwelseegv yqqdsplepv agvlvpbdgp galnacnph nftvptvwgs tvqvswlali
121 qruggctfad kihlayerga sgavifnfpq trnevipmsh pgavdivaim ignlkgtkil
181 qsiqrgiqvt mvievgkkhg pvnhyisiff vsvsffiita atvgyfifys arrlrnaraq
241 srkqrqlkad akkaigrlql rtkqgdkei gpdgdscavc ielykpndl viltcnhifh
301 ktcdpwll hrtcpmckcd ilkalgievd vedgsvslqv pvsneisnsa ssheenrse
361 tassgyasvq gtdeappleh vqstneslql vnheansvav dviphvdnpt feedetpnqe
421 tavreiks (SEQ ID NO:11)

FIG. 6A

1 mgpppgigvy crggcgaarl lawcfllals phapgsrgae avwtaylnvs wrvphtgvnr
61 tvwelseegv yqqdsplepv sgvlvppdgp galnacnph nftvptvwgs tvqvswlali
121 qruggctfad nihlayerga sgavifnfpq trnevipmsh pgagdivaim ignlkgtkil
181 qsiqrgiqvt mvievgkkhg pvnhyisiff vsvsffiita atvgyfifys arrlrnaraq
241 srkqrqlkad akkaigklql rtkqgdkei gpdgdscavc ielykpndl viltcnhifh
301 ktcdpwll hrtcpmckcd ilkalgievd vedgsvslqv pvsneasnta spheedsrse
361 tassgyasvq gadeappleh aqsanenlql vnheansvav dviphvdnpt feedetpdqe
421 aavreiks (SEQ ID NO:12)

FIG. 6B

5 1 magaaspca gcpqgapsda evlhlcrsle vgtvmtlfys kksqrperkt fqvkletraqi
 61 twsrgadkie gaidireike irpgktsrdf dryqedpafr pdqshcfvil ygmefrlktl
 121 slqatsedev nmwikglwl medtlqapt lqierwrkq fysvdrnred risakdlknm
 181 lsqvnyrvpn mrflrerltd leqrsgdity qgfaqlyrl mysaqktmdl pfleastlra
 241 gerpelcrvs lpefqflld yqgelwavr lqvqefmlsf lrdplreiee pyffldefvt
 301 flfskensvw nsqldavcpd tmnnplshyw issshntylt gdqfsessl eayarclrmg
 361 crcielcdwd gpdgmpviy ghtlttkikf sdvlhtikeh avaseypvi lsiedhcsia
 421 qqrnmqaqyk kvlgdtlltk pveisadgip spnqlkrkil ikhklaegs ayeevptsomm
 481 ysendiensi knigilyledp vnhephyf vtsskiyys eetssdqgnne deeepkevss
 541 stelhsnekw fhgklgagrd grhiaealit eycietgapd gsflvreset fvgdytlfsw
 601 rngkvqhcrai hsrqdagtppk ffltdnlvfd slydlihyq qvplrcnefe mrlsepvpqt
 661 naheskewyh aslraqaeh mlmrprdg flvrkrnepn syaisfraeg kikhcrvqge
 721 gqtvmlgnse fdslvdliy yekhplyrk klrypineea lekigtaepd ygalyegrnp
 781 gfyveanpmp tfkcavkalf dykaqredel tfiksaiqn vekqeggwwr gdyggkkqlw
 841 fpsnyveemv npvalepere hldensplgd llrgvldvpa cqairpegk nnrlfvfsis
 901 masvahwsld vaadsqealq dwvkkireva qtadarlte kimerrkkia lelselvvyc
 961 rpvpfdeeki gteracyrdm ssfpetaek yvnakgkkf lqynrlqlsr iypkgqrlds
 1021 snydplpmwi cgsqlvalnf qtpdkpmqmn qalftgrhc gyvlqpstmr
 deafdpfdks
 1081 slrglepcal sievlgarhl pkngngivcp fveievagae ydstkqktes
 vvdnglnpvw
 1141 pakpfhfqis npefaflrfv vyeedmfdsq nflaqatfpv kglktgyrav
 plknnyseal
 1201 elaslikid ifpakqengd lspfsgtslr ergsdasgql fhgraregsf
 esryqqpfed
 1261 frisqehlad hfdsrerrap rrtrvngdn 1 (SEQ ID NO:13)

FIG. 7A

1 mefrlktls1 qatsedevnm wikglwlme dtlqaatplq ierwrkqfy svdrnredri
 61 sakdlknmls qvnyrvpnmr flrerltdle qrsgdityqg faqlyrlmy saqktmdlpt
 121 letnalrtge rpehcqvsis efqqflleyq gelwadrlq vqefmlsflr dplreieepy
 181 ffldelvtfl fskensvwns qldavcpdtm nnplshywis sshntyltg qfsessle
 241 yarclrmgr cieldcwg dpmpviygh tlttkikfsl vltlikehaf vaseypvils
 301 iedhcsiaqq rnmaghfrkv lgdtlltkpv diaadglpsp nqlrrkilik hkklaegsay
 361 eevptsvmys endisnsikn gilyledpvn hephyfvl tsskiysee tssdqgnede
 421 eepkeassst elhssekwfh gklgagrdgr hiaealit cietgapdgs flvresetfv
 481 gdytlfwrn gkvqhcrahs rqdagtpkff ltdnlvfdsl ydlihyqgv plrcnefemr
 541 lsepvpqtna heskewyhas ltraqaehml mrvprdgafl vrkrnepnsy aisfraegki
 601 khcrvqeqg tvmlgnsefd slvdlisyye khplyrkml rypineeaale kigtaepdyg
 661 alyegrnpgf yveanpmpf kcavkalfdy kaqredeltf tksaiqnve kqdggwwrgd
 721 yggkkqlwfp snyeemimp avleperehl densplgdll rgvldvpacq iairpegknn
 781 rlfvfsismp svaqwsldva adsqeelqdw vkkirevaqt adarltekm merrkkiale
 841 lselvvycrp vpdeekigt eracyrdmss fpetkaeyv nkakgkkflq ynrlqlsriy
 901 pkgqrldsn ydplpmwicg sqlvalnfqt pdkpmqmnqa lfmagghcgy vlqpstmrde
 961 afdpfdkssl rglepcvici evlgarhlpk ngrgivcpfv eievagaeyd stkgktesvv
 1021 dnnglnpvwpa kpffqisnp efaflrfvvy eedmfdsqnf laqatfpvkg
 lktyravpl
 1081 knnyselel aslllikidif pakengdlsp fsgislrera sdassqlfhv
 raregsfear
 1141 yqqpfedfri sqehladhfd srerraprrt rvngdnrl (SEQ ID NO:14)

FIG. 7B

1 mspflrigls nfdcgscqsc qgeavnpyca vlvkeyvese ngqmyiqkqp tmyppwdstf
 61 dahinkgrvm qivkgknvd lisettvely slaercrkn gkteiwlelk pggrmlmnar
 121 yflemsdtkd mnerefetegff alhqrrgaik qakvhvkvch eftatffpqf tfcsvchefv
 181 wglnkqgyqc rqcnaaihkk cidkviakct gsainsretm fhkerfkidm phrfkvynyk
 241 sptfcehcgt llwglarqgl kcdacgmnvh hrcqtkvanl cgingqlmae alamiestqq
 301 arclrdteqi freqpveigl pcsiknearp pclptpgkre pggiswespl devdkmchlp
 361 epelnkerps lgiklkiedf ilhkmlgkgs fgkvflaefk ktnqffaika lkkdvvlmd
 421 dvectmvekr vlslawehpf lthmfctfqf kenlffvmey lnggdlmyhi qschkfdlsr
 481 atfyaaeiil glqflhskgi vyrdlkldni lldkdghiki adfgmckenm lgdaktntfc
 541 gtpdyiapei llggkynhsv dwssfgvlvy emligqspfh ggdeeeelfhs irmdnpypr
 601 wlereakdil vklfvrepek rlgvrgdirq hplfreinwe elerkeidpp frpkvkspfd
 661 csnfdkefln ekprlsfadr alinsmdqnm frnfsmnpng merlis (SEQ ID
 NO:15)

FIG. 8A

1 mspflrigls nfdcgscqac qgeavnpyca vlvkeyvese ngqmyiqkqp tmyppwdstf
 61 dahinkgrvm qivkgknvd lisettvely slaercrkn grteiwlelk pggrmlmnar
 121 yflemsdtkd msefenegff alhqrrgaik qakvhvkvch eftatffpqf tfcsvchefv
 181 wglnkqgyqc rqcnaaihkk cidkviakct gsainsretm fhkerfkidm phrfkvynyk
 241 sptfcehcgt llwglarqgl kcdacgmnvh hrcqtkvanl cgingqlmae alamiestqq
 301 arslrdsehi freqpveigl pcstkntrp pcvptpgkre pggiswdspl dgsnksagpp
 361 epevsmrrts lqkllkiddf ilhkmlgkgs fgkvflaefk rtnqffaika lkkdvvlmd
 421 dvectmvekr vlslawehpf lthmfctfqf kenlffvmey lnggdlmyhi qschkfdlsr
 481 atfyaaevil glqflhskgi vyrdlkldni lldrdghiki adfgmckenm lgdaktntfc
 541 gtpdyiapei llggkynhsv dwssfgvlvy emligqspfh ggdeeeelfhs irmdnpypr
 601 wlereakdil vklfvrepek rlgvrgdirq hplfreinwe elerkeidpp frpkvkspyd
 661 csnfdkefls ekprlsfadr alinsmdqnm fsnfsmnpng metlics (SEQ ID
 NO:16)

FIG. 8B

1 mmaaeagsee ggpvttagagg ggaaagssay pavcrvkipa alpvaaapyp glvetgvagt
 61 lgggaalgse flgagsvaga lggagltggg taagvagaaa gvagaavagg sgdmaltklp
 121 tsllaetlgi gggfplppp pylpplgagl gtvdegsld gpeyeeeava ipltapptnq
 181 wyhgkldrti aeerlrqagk sgsyliresd rrpgrsfvlsf lsqmnnvhf rriamcgdy
 241 iggrrfssls dligyyshvs cllkgeklly pvappevped rrdrvralpy tkvpdtdeis
 301 flkgdmfihv neledgwmwv tnrltdeeqgl ivedlveevg reedphegki wfhgkiskqe
 361 aynllmtvgq vcsflvrpsd ntpgdyslyf rtneniqrkf icptpnqfm mggryynsig
 421 diidhyrkeq ivegyylkep vpmqdqeqvl ndtvdgkeiy ntirrktkda fyknivkkgy
 481 llkkgkgkrw knlyfilegs daqliyfese kratkpkgli dlsvcsvyvv hdslfgrpnc
 541 fqivvvqhfse ehyifyfage tpeqaedwmk glqafcnlrk sspgtsnkrl rqvsslvlhi
 601 eeahklpvkh ftncpniy nsvqvaktha reggnpvwse efvfddlpd inrfeitlsn
 661 ktkkskdmdi lfmrcqlsrl qkghatdewf llsshipk iepgslrvra rysmekimpe
 721 eeysefkeli lqkelhvya lshvcgqdr llasillrif lhekleslll ctln dreism
 781 edeattlfra ttlastlmeq ymkatqfv hhalkdsilk imeskqscel spsklekned
 841 vntnlthlln ilselvekif maseilppti ryiygclqks vqhkwpntt mrtrvvsgfv
 901 flrllicpail nprmfniisd spspiaartl ilvaksvqnl anlvefgake pymegvnpfi
 961 ksnkhrmimf ldelgnvpel pdtbehrtl lsrslaalhe icvahsdelr tlsnergaqq
 1021 hvlkllait ellqqkqnqy tktndvr (SEQ ID NO:17)

FIG. 9A

1 mcgdyiggr rfsslsdlig yyshvscblk gekllypvap pepvedrrrv railpytkvp
 61 dtdeisflkg dmfvhnele dgwmwvtnlr tdeqglived lveevgreed phegkiwfhg
 121 kiskqeaynl lmtvgqvcnf lvrpsdntpg dyslyfrtne niqrfkicpt pannqfmmggr
 181 ynsigdiid hyrkeqiveg ylkpvpmpq dqgqvlnlty dgkeiyntir rktkdafykn
 241 ivkkgyllkk gkgkrwknly filegsdaql iyfesekrat kpklidlsv csvyvhds
 301 fgrpnccqiv vqhfseehyi fyfagetpeq aedwmkglqa fcslrksspg tsnkrlrqvs
 361 slvhieeah klpvkftnp ycniylsvq vaktharegg npvwseefvf ddldppdinrf
 421 eitlsnktkk skdpdilfmr cqslrlqkgh atdewflss hiplkgiepg slrvraryst
 481 ekimpeeeys efkelilqke lhvvyalshv cgqdrllas illkiflhek leslllctln
 541 dreismedea ttlfrattla stlmegymka tatqfvhhal kdsilkimes kqscelspsk
 601 leknedvntn lahllsilse lvekifmase ilpptrlyiy gclqksvqhk wptnntmrtr
 661 vvsgfvflrl icpailnprm fniisdspsp iaartltlva ksvqnlanlv efgakepyme
 721 gvnpfiksnk hrmmfidel gnvpelpdt ehrtldlsrd laalheicva hsdelrtlsn
 781 ergvqqhvlk kllaitellq qkqngytktv dir (SEQ ID NO:18)

FIG. 9B

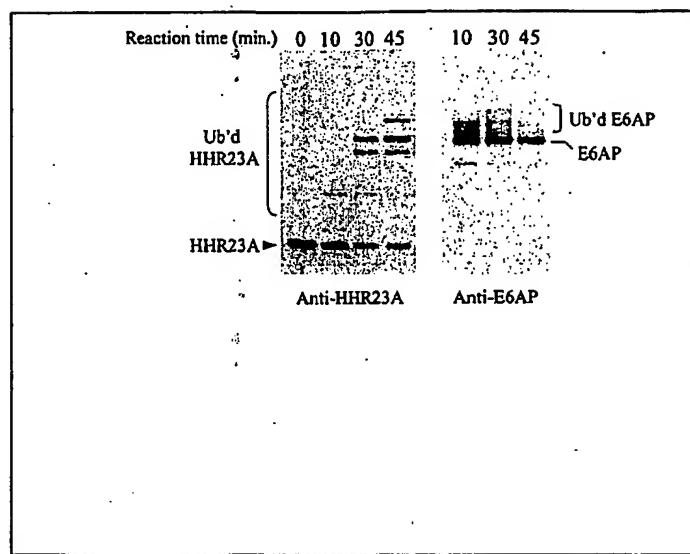


FIG. 10

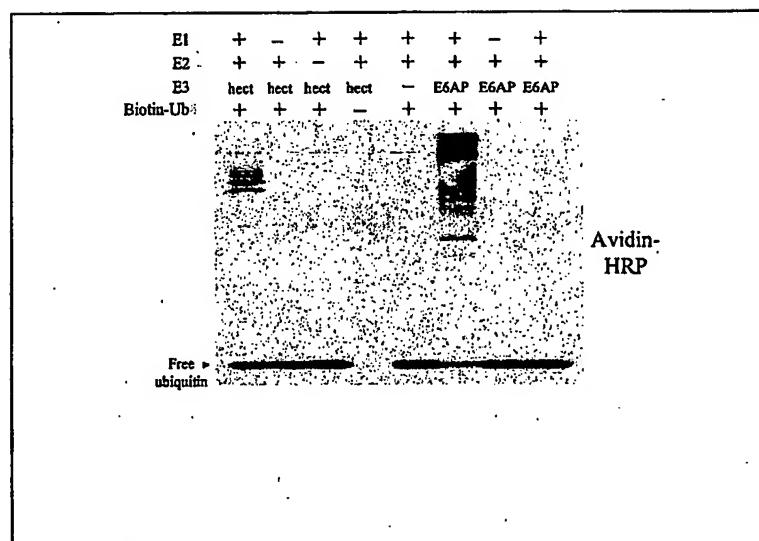


FIG. 11

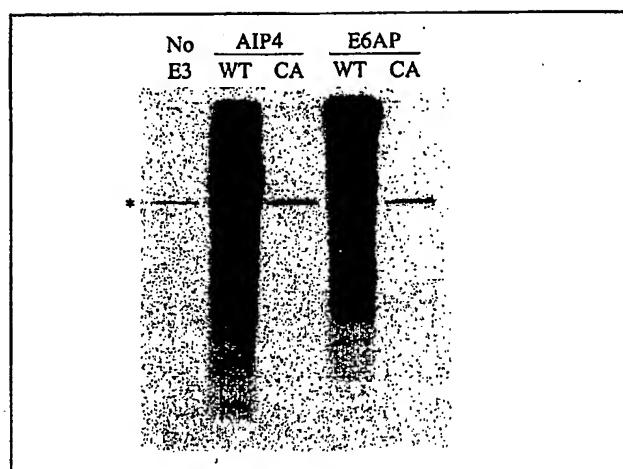


FIG. 12

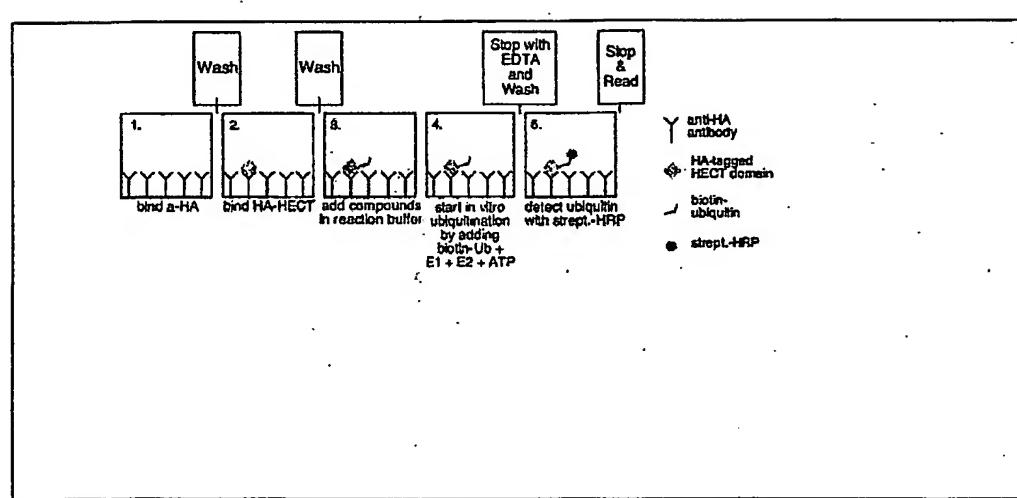


Fig. 13

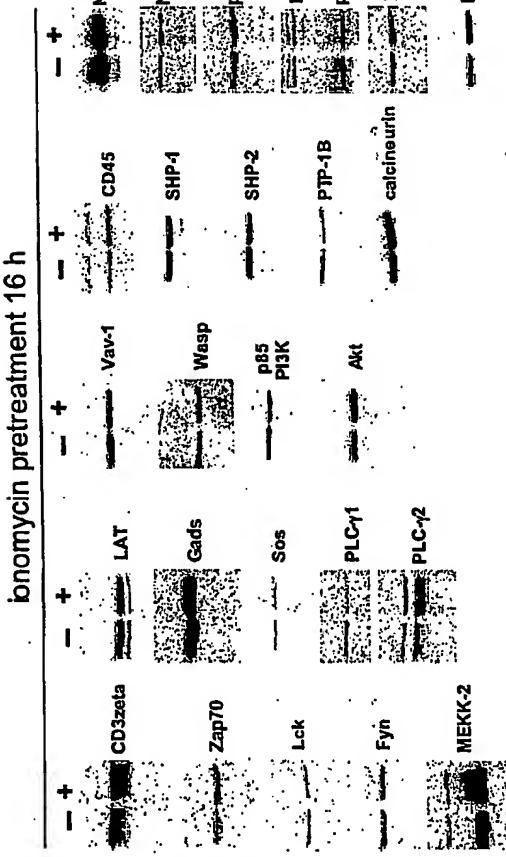
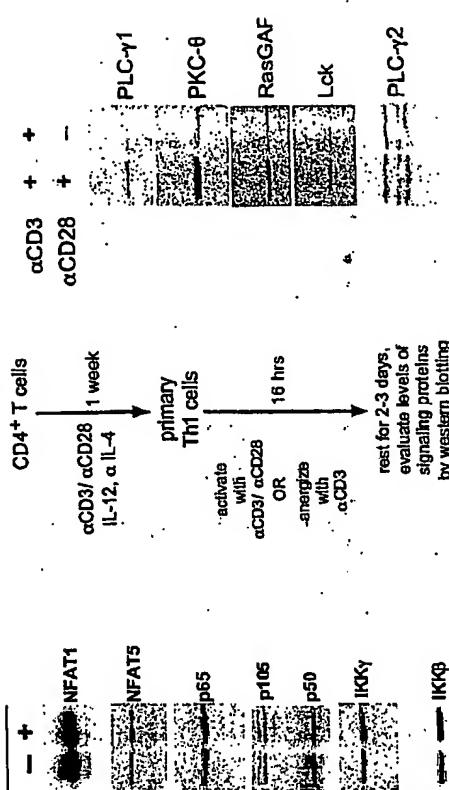
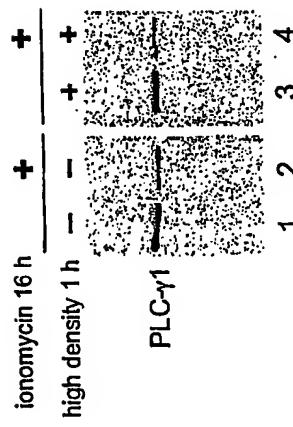
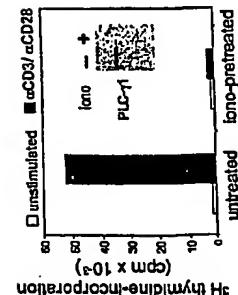
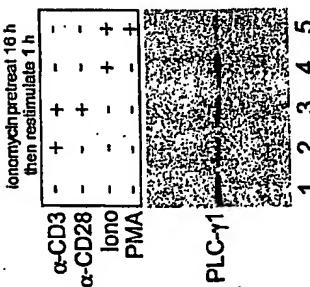
Fig. 14A**Fig. 15A****Fig. 14B****Fig. 14C****Fig. 14D**

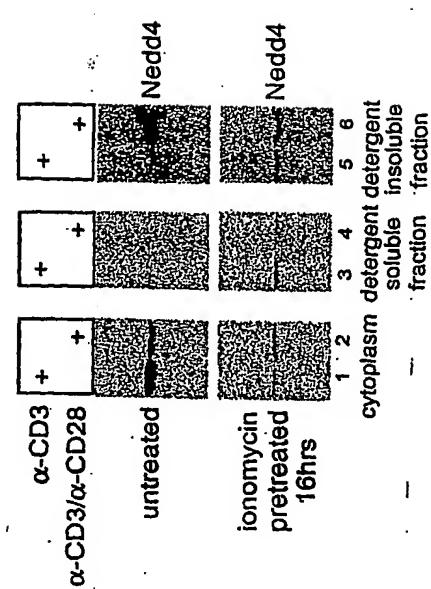
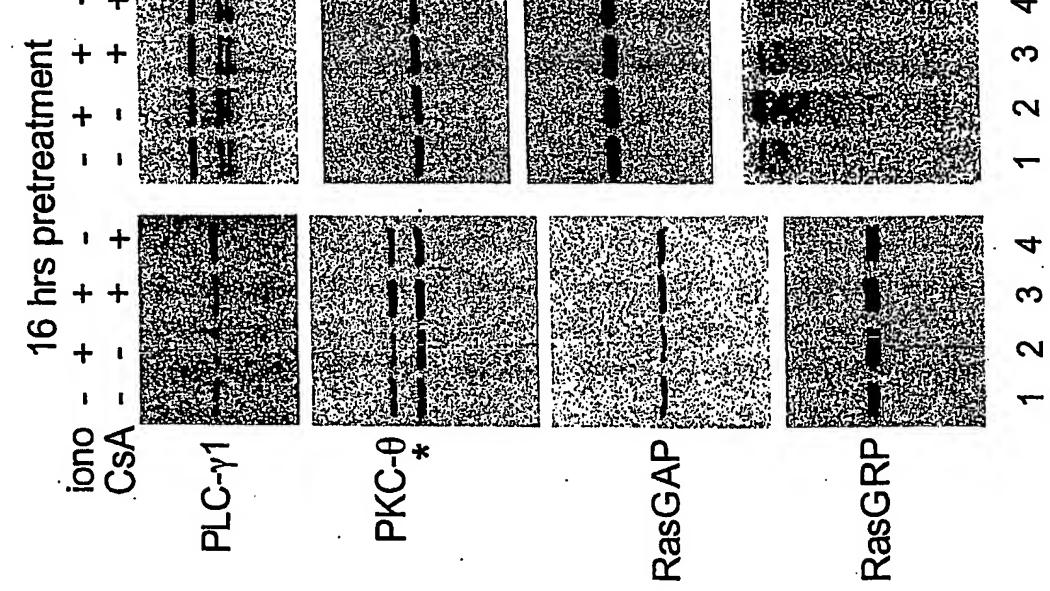
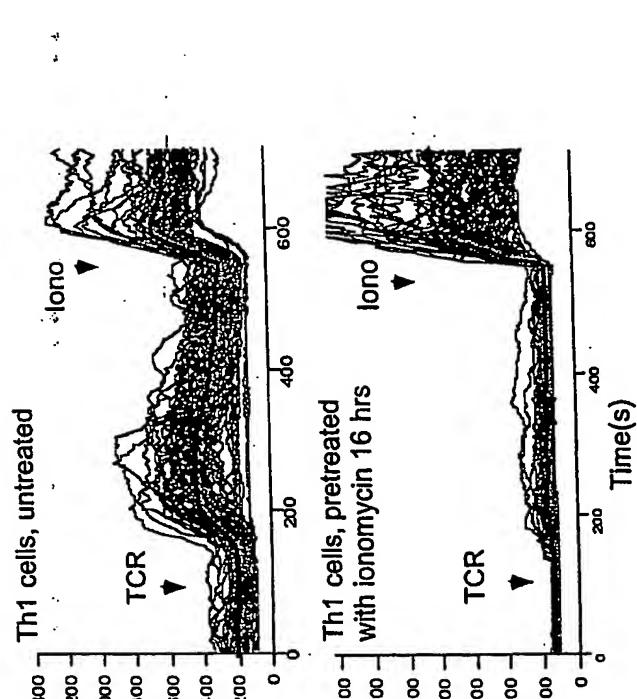
Fig. 15B

Fig. 16A**Fig. 21****Fig. 14E**

1 2 3 4 1 2 3 4

Fig. 16B

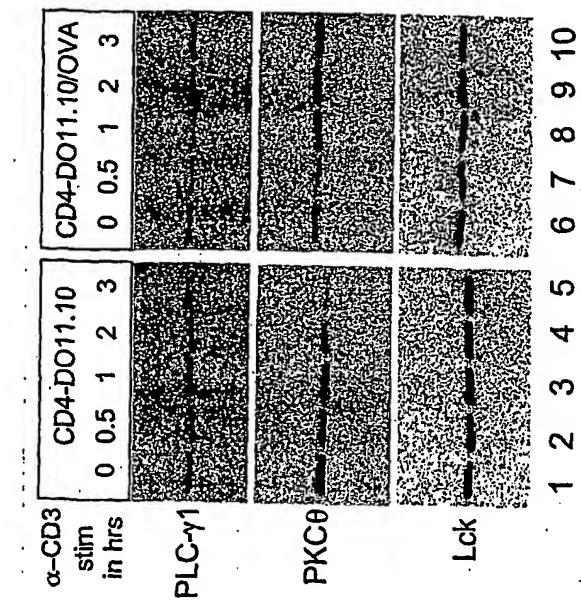


Fig. 16D

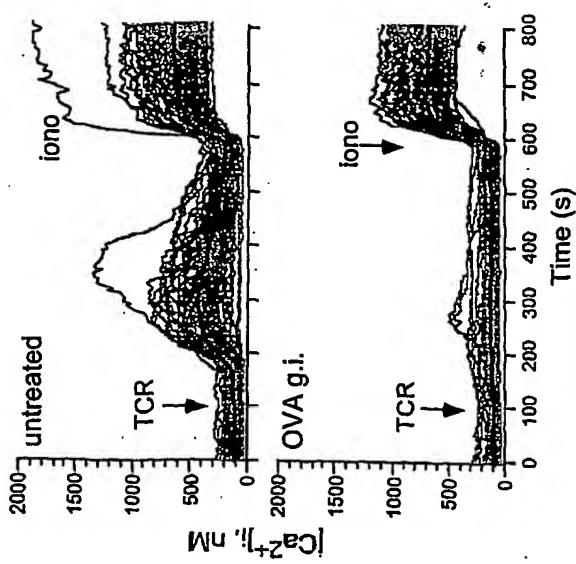


Fig. 16C

DO11.10

DO11.10/OVA

Chase 0 60' 180' 0 60' 180'

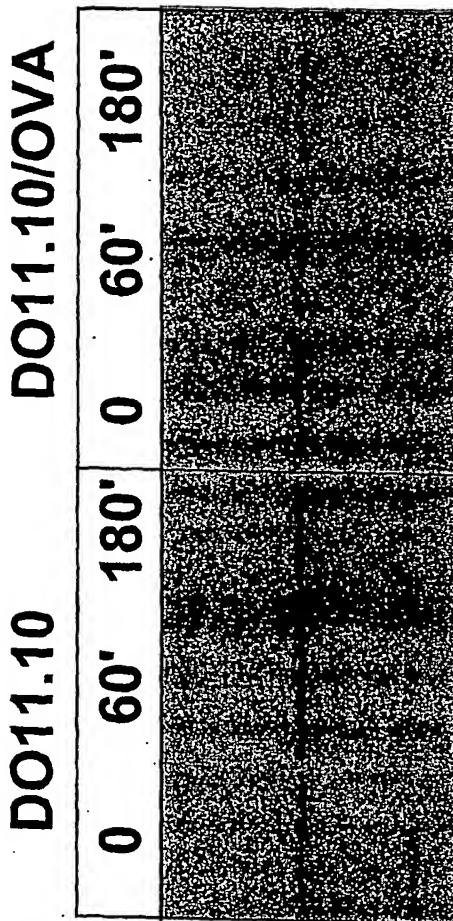


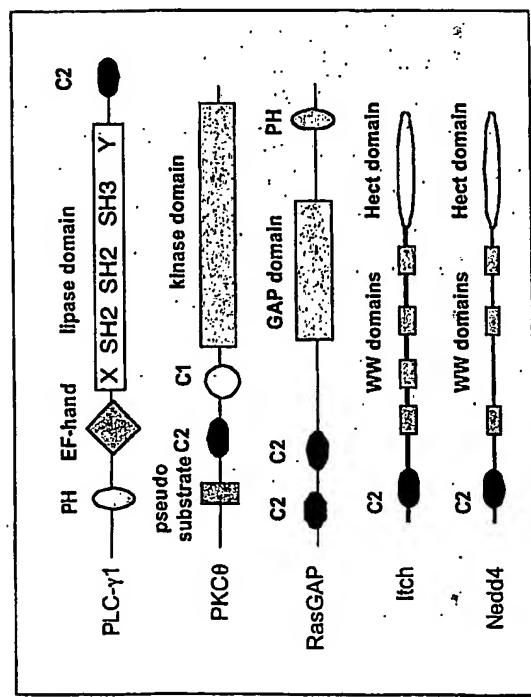
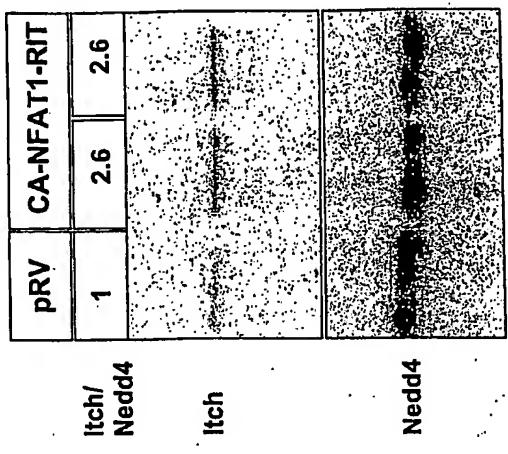
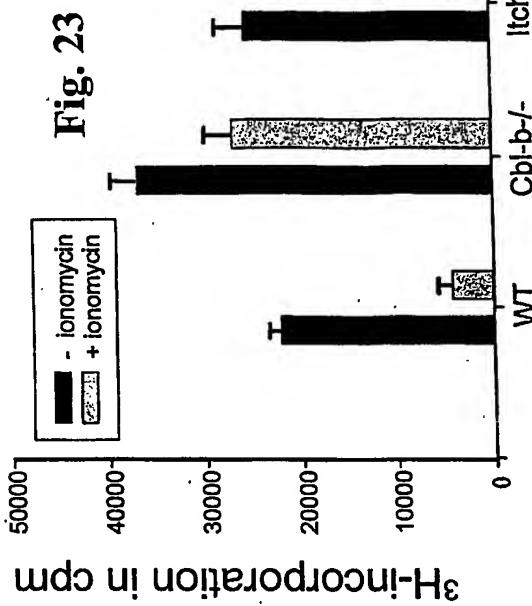
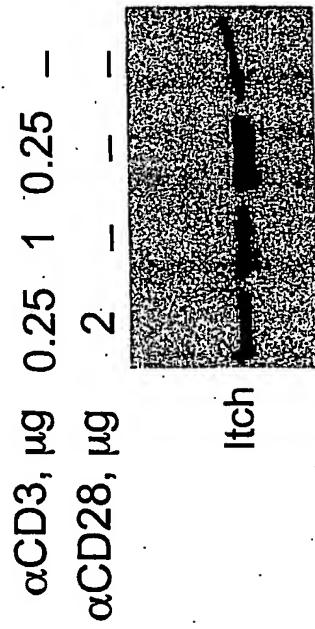
Fig. 17A**Fig. 15D****Fig. 15C**

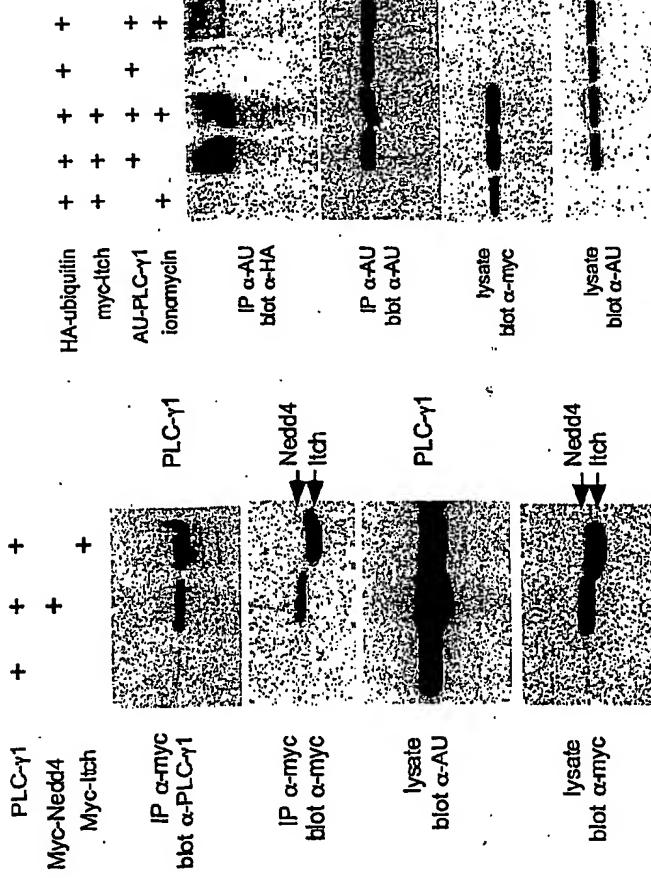
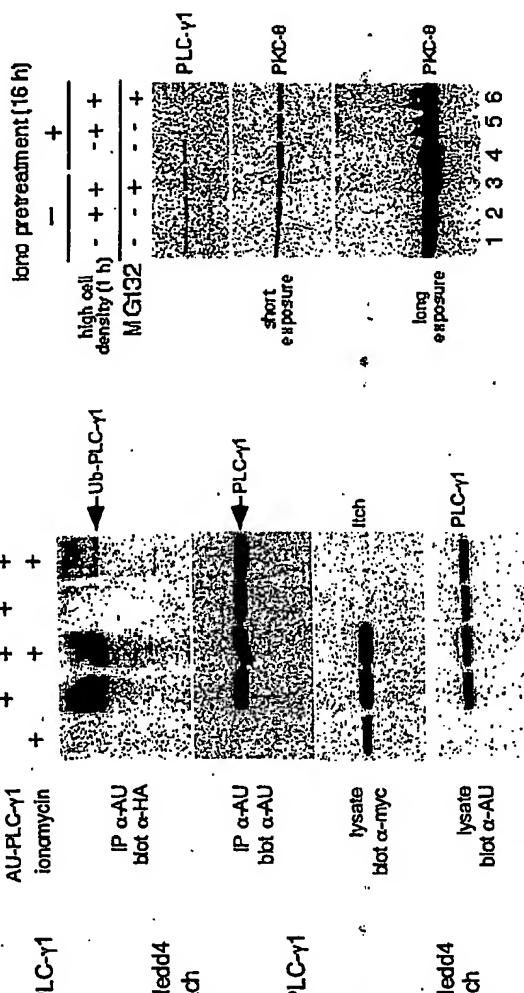
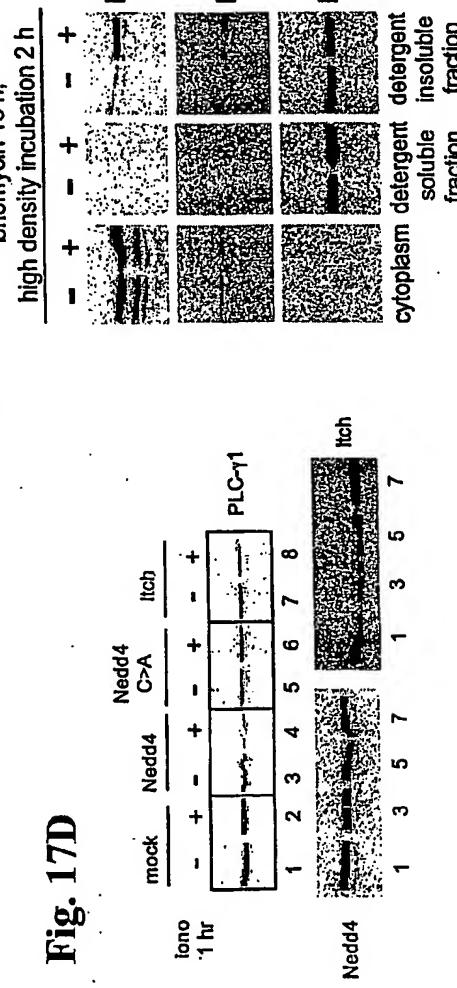
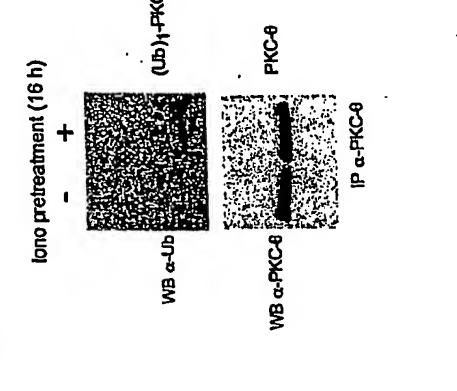
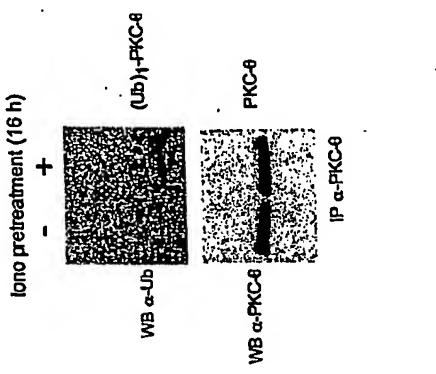
Fig. 17B**Fig. 17C****Fig. 17F****Fig. 17E****Fig. 17D****Fig. 17F****Fig. 17G**

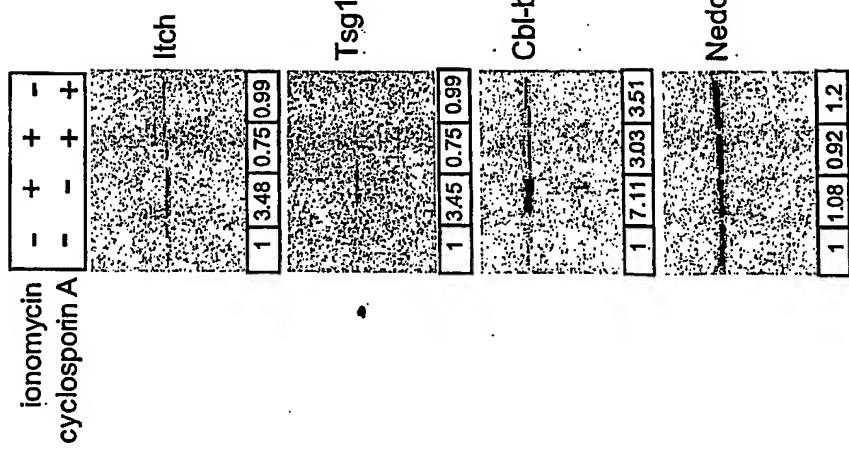
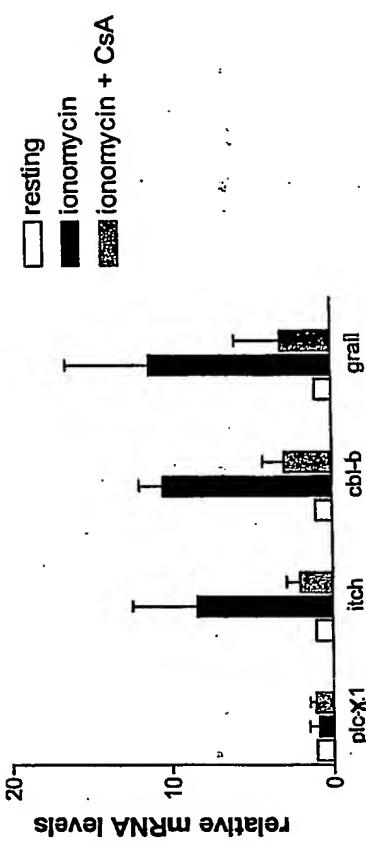
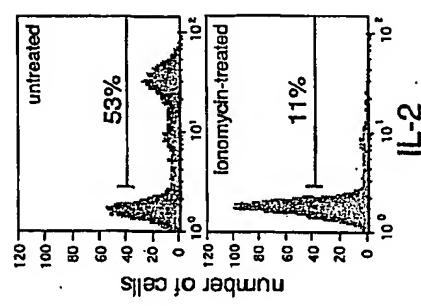
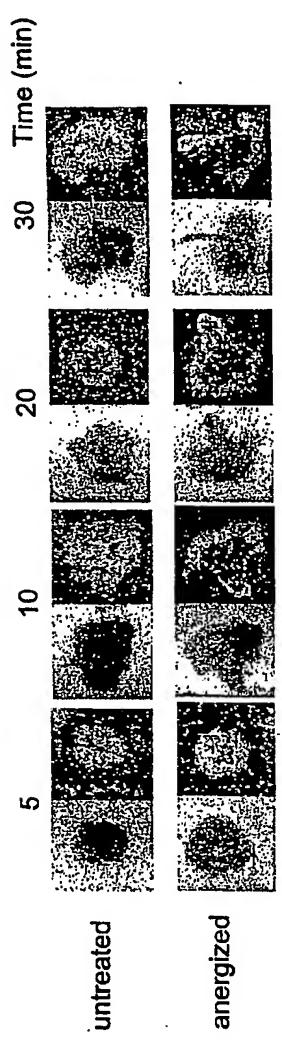
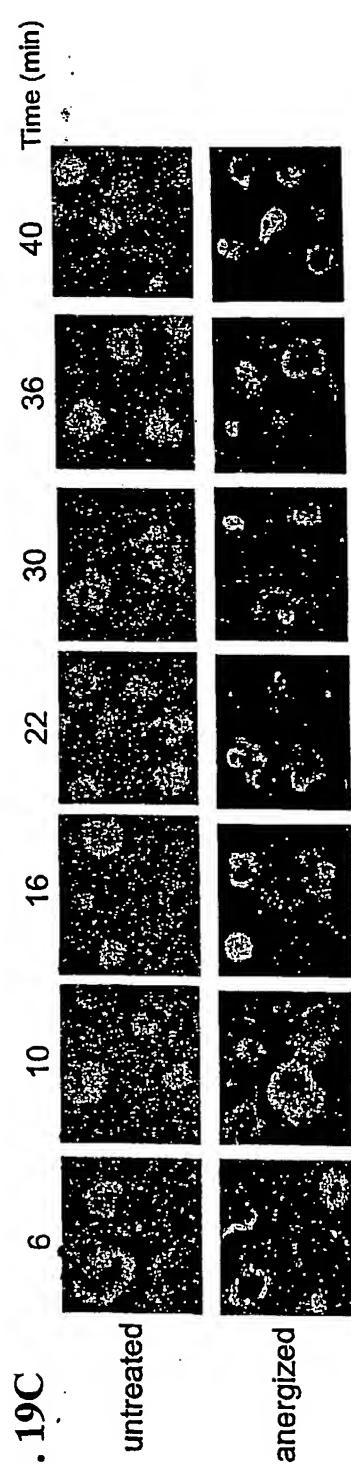
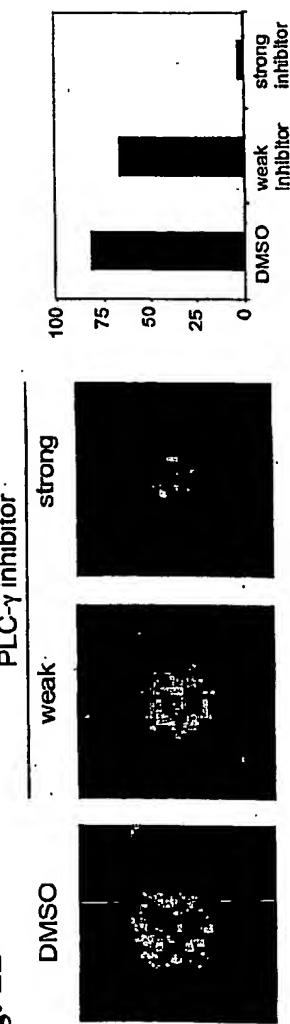
Fig. 18A**Fig. 18B**

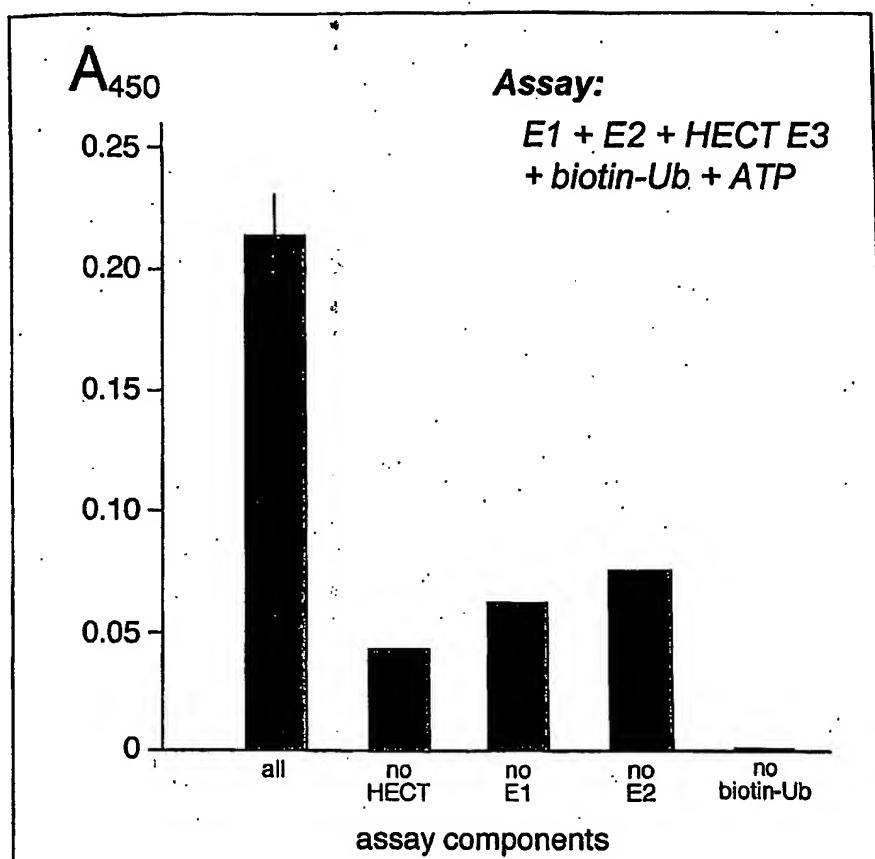
Fig. 19A**Fig. 19B****Fig. 19C****Fig. 22**

1 mavesqlkk mmskykyrdl tvretvnvit lykdlkpvl syvfndgssr elmnltgtip
61 vpyrgntyni piclwldty pynppicfvk ptssmtiktg khvdangkiy lpylhewkhp
121 qsdllgliqv mivvfgdepp vfsrpisasy ppyqatgppn tsympgmpgg ispypsgypp
181 npsgypgcpv ppggpypatt ssqypsppv ttvgpsrdgt isedtirasl isavsdklrw
241 rmkeemdraq aelnalkte edlkkghqkl eemvtrldqe vaevdknitel lkkkdeelss
301 alekmenqse nndideviip taplykqiln lyaeenaiet tifylgealr rgvidldvfl
361 khvrllsrkq fqlralmqka rktagsdl (SEQ ID NO:19)

Fig. 20A

1 mavesqlkk mmskykyrdl tvrqtvnvia mykdlkpvl syvfndgssr elvnltgtip
61 vryrgniyni piclwldty pynppicfvk ptssmtiktg khvdangkiy lpylhdwkhp
121 rselleliqi mivifgeepp vfsrptvsas yppytatgpp ntssympgmps gisaypsgyp
181 npsgypgcp yppagpypat tssqypspp vttvgpsrdg tisedtiras lisavsdklr
241 wrmkeemdraq qaelnalkrt eedlkkghqk leemvtrldq evaevdknitel lkkkdeels
301 salekmenqs enndideviip ptaplykqil nlyaeenaie dtifylgeal rrgvidldvfl
361 lkhvrllsrk qfqlralmqk arktagsdl y (SEQ ID NO:20)

Fig. 20B

Fig. 24

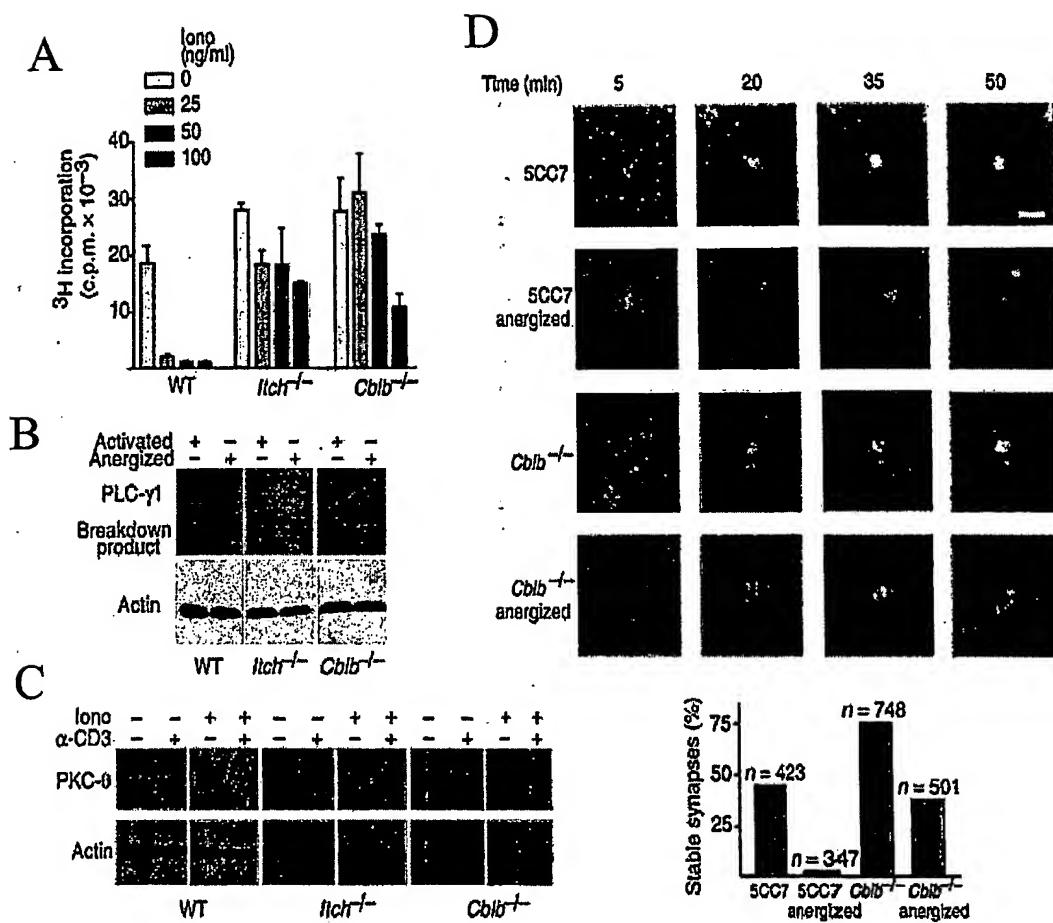


Fig. 25

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.